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abstract class Shape
{
    abstract void numberOfSides();
}

class Rectangle extends Shape
{
    void numberOfSides()
    {
        System.out.print("Number of Sides = 4\n");
    }
}

class Triangle extends Shape
{
    void numberOfSides()
    {
        System.out.print("Number of Sides = 3\n");
    }
}

class Hexagon extends Shape
{
    void numberOfSides()
    {
        System.out.print("Number of Sides = 6\n");
    }
}

public class shape
{
    public static void main(String args[])
    {
        Rectangle rec=new Rectangle();
        Triangle tri=new Triangle();
        Hexagon hex=new Hexagon();
        Shape shaperef;

        System.out.print("-->RECTANGLE\n");
        shaperef=rec;
        shaperef.numberOfSides();

        System.out.print("-->TRIANGLE\n");
        shaperef=tri;
        shaperef.numberOfSides();

        System.out.print("-->HEXAGON\n");
        shaperef=hex;
        shaperef.numberOfSides();
    }
}

```

